



TEST REPORT

98, Gyoyukwon-ro, Gwacheon-si, Gyeonggi-do, 13810, Korea

TEL 82-32-5709-700

FAX 82-32-575-5613

Report No : TAK-2018-014239

Receipt Date : 2018.01.19.

Representative : Jang-Soo, Oh

Test Completion Date : 2018.02.21.

Company name : LG HAUSYS Co., Ltd

Address : (Yeouido-dong, One IFC)10, Gukjegeumyung-ro, Yeongdeungpo-gu, Seoul, Korea.

Sample name : Artificial Marble (Granite)

Test Results

| TEST ITEM | UNIT | SAMPLE | RESULT | TEST METHOD |
|---|------|--------|----------------------|----------------------------------|
| Specific Gravity((23/23) °C) | - | - | 1.64 | ASTM D792-13(Method A) |
| Rockwell Hardness(HRM) | - | - | 89 | ASTM D785-08(2015)(Procedure A) |
| Barcol Hardness | - | - | 64 | ASTM D2583-13a |
| Tensile Strength | MPa | - | 39.6 | ASTM D638-14(*) |
| Tensile Modulus | GPa | - | 9.16 | ASTM D638-14(*) |
| Flexural Strength | MPa | - | 62.6 | ASTM D790-17(**) |
| Flexural Modulus | GPa | - | 8.2 | ASTM D790-17(**) |
| Izod Impact Strength | J/m | - | 14 | ASTM D256-10e1(Method A) |
| Water Absorption(24 h Immersion) | % | - | 0.03 | ASTM D570-98(2010)e1 |
| Appearance(Crack) after Heat Resistance[(170±2) °C×1 h] | - | - | No Defects | Client Provided Test Method |
| Appearance(Discoloration) after Hot Water Resistance | - | - | No Defects | Client Provided Test Method(***) |
| Deflection Temperature Under Load(1.82 MPa) | °C | - | 103 | ASTM D648-16(Method B) |
| Thermal Expansion | 1/°C | - | 4.9×10 ⁻⁵ | KS M 3015 : 2003 |
| Pencil Hardness(Mitsu bishi pencil) | - | - | 8H | KS M ISO 15184 : 2013 |

- Next Page -

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Reviewed by You Seok

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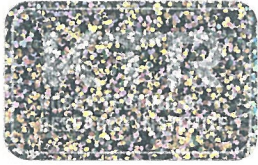
2018.02.21

Korea Testing & Research Institute

 President *Byun, Jong-Riip*


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Page : 1 of 2



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* Specimen : Type I, Speed of Testing : 5 mm/min (Modulus : 1 mm/min)

** Speed of Testing : 5.1 mm/min, Support Span : 190 mm

*** Changing appearance after pour boiled water on the surface

* Usage of Report : QUALITY CONTROL

- Note :
1. The test results of this test report are only limited in to the samples and sample names provided by the client and do not guarantee the quality of all products of the client. You Can check website (www.ktr.or.kr) or QR code to verify the authenticity of the certificate.
 2. This test report shall be used only within the purpose of its defined usage and shall not be used for public relation, advertisement and lawsuit.
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